

E.I. DUPONT DENEMOURS AND COMPANY, INC. – SPRUANCE PLANT
RICHMOND, VIRGINIA

**E.I. duPont deNemours and Co., Inc. –
Spruance Plant of Richmond, Virginia**

manufactures synthetic fibers, sheets, and resins used in bullet-resistant vests, fire retardant clothing, hygienic food packaging, molded parts for cars and trucks, and vapor barriers/wraps used in housing construction. DuPont Inc. and the Spruance Plant have been working to reduce their environmental footprint since 1987. The Spruance facility maintains a large portion of its site as a certified wildlife habitat area, eliminated use of carbon tetrachloride, carbon disulfide, chlorine, and perchloroethylene, has reduced chloroform emissions by 90% and reduced the amount of waste landfilled by 78%. DuPont – Spruance won the 1999 Governor’s award for

environmental excellence and the Site Environmental Manager won a 1998 Environmental Leadership Award and the 1999 Businesses for the Bay Mentor of the Year Award. DuPont – Spruance employees participate in many community service organizations. DuPont – Spruance has an active auditing program to help improve its environmental performance. Its EMS is third-party audited.

AT A GLANCE

Industry Sector:	SIC 2824, 2821, 2297
Business:	Manufactures synthetic fibers, sheets, and resins
Facility Employees:	more than 1,000
Accomplishments:	Reduced emissions of air toxics Reduced water use
2004 Commitments:	Increase use of recycled materials Reduce emissions of air toxics Reduce hazardous waste Reduce total solid waste
Address:	5401 Jefferson Davis Hwy. Richmond, Virginia 23234

ENVIRONMENTAL PERFORMANCE

Past Accomplishments

DuPont – Spruance has demonstrated its commitment to environmental performance in the areas of reduced emissions of air toxics and reduced water use. Since 1998, the facility has:

- **Reduced emissions of air toxics** by 4.1% (96.7% since 1987) through improving leak detection, training, equipment reliability, managing change, auditing, and eliminating two lab solvents.
- **Reduced water use** for cooling by 94.8% through installing a cooling tower to allow recycling of all non-contact cooling water.

Future Commitments

DuPont – Spruance has also committed to continued environmental improvement. By 2004, the facility will:

- **Increased use of recycled materials** from 0 to 180000 lbs./year of Kevlar through recycling of prepolymers generated during process startups and shut downs.
- **Reduce emissions of air toxics** (carbon disulfide) by 100% through substituting low hazard/toxicity spin matrix in powder form.
- **Reduce hazardous waste generation** in Kevlar by 9.9% through improved operator training, procedures, and process technology to improve first pass yields.
- **Reduced total solid waste** in Nomex by 50% through a polymer waste recycling system.

COMMUNITY OUTREACH

DuPont – Spruance identifies and responds to community concerns through the Chesterfield County Community Advisory panel and membership in various community organizations. It informs the community of important issues through these same channels and public notices in the local newspaper. It plans to make its Performance Track annual report available on its web site and Dupont's Annual Sustainable Growth Progress Report.